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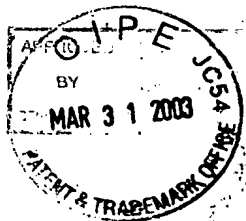


Applicant: Vanitha Ramakrishnan and David R. Phillips
Title: TRANSGENIC ANIMALS HAVING A MODIFIED
GLYCOPROTEIN V GENE
Attorney/Agent: Tracy M. Sioussat
Docket No.: MPI98-149P1USRCM

FIG. 1A

50	GAAATTCATTG	GCCTTATTTA	AGAAATAAAA	TGTTGAGCAA	AAGAGATGGC
100	TCATCAGGTA	AAGATACCTC	CCAAGACATG	GTGTGAGTCC	TTGGGAACCT
150	ACGTGAGGA	AGGTGAGAAC	CAATTGCCCTA	AAGTTTCTG	ACACCCACAA
200	GTGAGGCACT	GCCACATGCA	CCCACATACT	CCTGCACAGG	AATGAGTTAG
250	TGCAATGTAG	CATGGAAAAA	AACCAAAAGT	GTGGCCCATG	TAATGACAGC
300	CTGCTATTTC	TGGGAAAAC	TAGGCCCTCT	ACTCTCTAGC	TTTTACAAA
350	GGACTTTTAA	CTATGGACTC	TGAAAGTTTG	AAAGCTCTTG	TCATTAAAC
400	CTAGAATATG	CCCTATGGAG	ATAGTCTTTT	TCTTGACTTT	TTATCTGGTA
450	AGGTCCTTAT	CTTGAGGATG	CAAGAAATCT	TCCCTCTTCC	TCTCTGAAAGT
500	GCCAAAGTCAC	AAGCAGAGCT	GCAAGCCTTT	CAGTCAGTCC	AGGTCGAGA
550	ACTGCTTCAG	GTAAGGCCAA	ATATTCTTAA	ATTAGTGAT	GCAGTTAGAG
600	GCTCAGTCTG	TATAGGGGCA	GAAGGAGACC	TGGTACAAGA	AACAGTACAA
650	ATTTTACTT	GGGAAACAGA	GTAACCTAGT	ATTACTGTGT	GCTTCCTGGG
700	TAACTCAATG	CCCAGAGTAG	TTTTATTAA	CAGCTTGGTG	TATAAGCAAA
750	CAGTAGCTCA	TTATTTAAAT	GTGTGAGTCA	GAAAAACATC	TTCAAATGCT
800	ACTTATGTGA	CACCTTAAAT	AACCTCATGT	ACACTGGAGC	GACCAGCCTA
850	CTGCACTCGT	GTTACTGTAA	CAGTGCAAAG	TTCAGAAAAG	CATGGCATAA
900	AGCAATGGGC	ATTATCACCT	GCACCACTGG	GCTCCGGGCC	GGGAGTTACA
950	AAACGGGTGA	ATGAGTTGTG	GGGTGTTGGT	ACTTTGAAAA	TATGTAAGAA
1000	ATTGAATCTA	GTGGAAGTGG	GCCTTGCTGC	GGTTCTCTTG	CTGACTGTTG
1050	GGGATAAAGC	TCCCCTGCTTA	ACTTGTTAAA	GTCACTGACA	CAGCCAGTCC
1100	CAGGAGGCGT	TGCTTTCTAT	TCTCTGAAAA	AGACCGTAGC	AATTTAATT
1150	CGTTCTGTAA	CGATTTTAA	GTATTCTGTA	GCTTGAAAAT	GCCCAAATGT
1200	CAATGCTCTA	AACAGAAACCG	GGGAGATGGC	TGACTGGATA	AAAATGGGAA
1250	CCTGTAAGAC	TGATCTACTC	TCCAATACCC	ACATATGCTG	AATAGAAAAAG
1300	TAATTTTTTT	TTAATCAGCC	TTTGTAAGAT	AGAGGAAGAC	TTGGTTGTAT
1350	CTGAGCGTTC	CAAGGCCGTG	AGAGTGCTGG	CCCAAAAACT	GTGCTTGCGAG
1400	CAGTGGGTGC	AGGGCTCCAG	GATATGCTCT	GAGCCTTGTT	TTTGCTCTTG
	CATTCAGAC				

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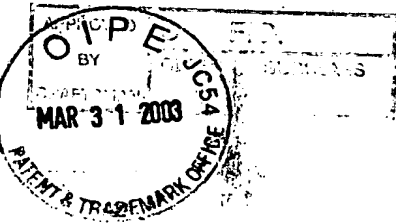


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FIG. 1B

(start)	ATGCTAAGAA	GCGCCCTGCT	GTCCGCGGTG	CTCGCACTCT	1450
TGCGTGCCCA	ACCTTTTCCC	TGCCCCAAAA	CCTGCAAGTG	TGTGGTCCGC	1500
GATGCCGCGC	AGTGCTCGGG	CGGCAGCGTG	GCTCACATCG	CTGAGCTAGG	1550
TCTGCCCTACG	AACCTCACAC	ACATCCTGCT	CTTCCGAATG	GACCAGGGCA	1600
TATTGCGGAA	CCACAGCTTC	AGCGGCATGA	CAGTCCTTCA	GCGCCTGATG	1650
CTCTCAGATA	GCCACATTTC	CGCCATCGAC	CCCGGCACCT	TCAATGACCT	1700
GGTAAAACTG	AAAACCCCTCA	GGTTGACGCG	CAACAAAATC	TCTCGTCTTC	1750
CACGTGCGAT	CCTGGATAAG	ATGGTACTCT	TGGAACAGCT	GTTCTTGGAC	1800
CACAAATGCAC	TAAGGGACCT	TGATCAAAAC	CTGTTTCAGC	AAC TCGGTAA	1850
CCTTCAGGAG	CTCGGTTTGA	ACCAGAAATCA	GCTCTCTTTT	CTTCCCTGCTA	1900
ACCTTTTCTC	GAGCCTGAGA	GAACTGAAGT	TGTTGGATTT	ATCGCGAAAC	1950
AACCTGACCC	ACCTGCCCAA	GGACTGCTT	GGGGCTCAAG	TTAAGCTTGA	2000
GAAACTGCTG	CTCTATTCAA	ACCAGCTCAC	GTCTGTGGAT	TCGGGGCTGC	2050
TGAGCAACCT	GGCGGCCCTG	ACTGAGCTGC	GGCTGGAGCG	GAATCACCTC	2100
CGCTCCGTAG	CCCCGGGTGC	CTTCGACCGC	CTCGGAAACC	TGAGCTCCTT	2150
GACTCTATCC	GGAAACCTCC	TGGAGTCTCT	GCCGCCCGCG	CTCTTCCTTC	2200
ACGTGAGCAG	CGTGCTCTCG	CTGACTCTGT	TCGAGAACCC	CCTGGAGGAG	2250
CTCCCGGACG	TGTTGTTTCGG	GGAGATGGCC	GGCCTGCCGG	AGCTGTGGCT	2300
GAACGGCACC	CACCTGAGCA	CGCTGCCCGC	CGCTGCCTTC	CGCAACCTGA	2350

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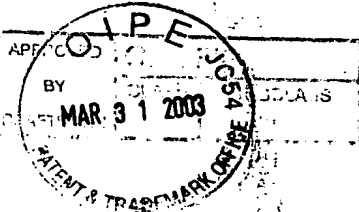


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FIG. 1C

2400	GCGGCTTGCA	GACGCTGGGG	CTGACGGGGA	ACCCGCGCCT	GAGCGCGCTC
2450	CCGCGCGCG	TGTTCCAGGG	CCTACGGGAG	CTGCGCGTGC	TCGCGCTGCA
2500	CACCAACGCC	CTGGCGGAGC	TGCGGACGA	CGCGCTGCGC	GGCCTCGGGC
2550	ACCTGCGCCA	GGTGTCGCTG	CGCCACAACC	GGCTGCGGGC	CCTGCCCCGC
2600	ACGCTCTTCC	GCAACCTCAG	CAGCCTCGAG	AGCGTGCAGC	TAGAGCACAA
2650	CCAGCTGGAG	ACGCTGCCAG	GAGACGTGTT	CGCGGCTCTG	CCCCAGCTGA
2700	CCAGAGTCCT	GCTGGGTCAC	AACCCCTGGC	TCTGCGACTG	TGGCCTGTGG
2750	CCCTTCCTCC	AGTGGCTGCG	GCATCACCCG	GACATCCTGG	GCCGAGACGA
2800	GCCCCCGCAG	TGCCGTGGCC	CGGAGCCACG	CGCCAGCCTG	TCGTTCTGGG
2850	AGCTGCTGCA	GGTGACCCG	TGGTGCCCGG	ATCCTCGCAG	CCTGCCCTCTC
2900	GACCCCTCCAA	CCGAAAATGC	TCTGGAAGCC	CCGGTTCGGT	CCTGGCTGCC
2950	TAACAGCTGG	CAGTCCCAGA	CGTGGGCCCA	GCTGGTGCC	AGGGGTGAAA
3000	GTCCCAATAA	CAGGCTCTAC	TGGGCTCTTT	ATATTCTGCT	TCTAGTAGCC
3050	CAGGCCATCA	TAGCCGCGTT	CATCGTGTTT	GCCATGATTA	AAATCGGCCA
3100	GCTGTTTCGA	ACATTAAATCA	GAGAGAAGCT	CTTGTTAGAG	GCAATGGGAA
	AATCGTG				
	(stop)				
	TAA	CTAATGAAAC	TGACCAGAGC	ATTGTGGACG	GGCCCCCAAG
	GAGAAATGCAG	TCAGGATGCT	GGCGTGCCAT	TACACTATTT	CCCAGGCCCTT
	TTCTCCTCTC	CCGTGCTCTT	AGTGCTCTCT	CTTCTCCCTT	CTCTTCAGAA
	GTAGCTTTTG	TAAATCGCTA	CTGCTTTCTA	GCCTGGCCTG	GTTTACCTCC
	TCTGCTGTTA	GTTTCAAGGG	GGCTGAGGGT	GGGGGTTCTGA	CGGACTTGG
	CTCATCAGGT	CCAACTGTGC	AGCGCTGGGT	GCCTAGTGGG	GAGAGGAGCC
	CTTTCTTTGGT	TTCTGAATTT	GAGGACACAT	CCTGCCAGTG	GGCAAGACCT
	CTCCGGGACC	CAGCAAGGGT	TGAGTAACAT	TTGCTGAAGG	AACACCGGCT
	TAAACGGAAC	CCTAGGTCCA	AGAGATGAAG	GCTCTTCCCA	AAATAAAGGT
	GGAGTGTCT	TGTCCCTTTA	CCTGAAAGGA	GAATTC	

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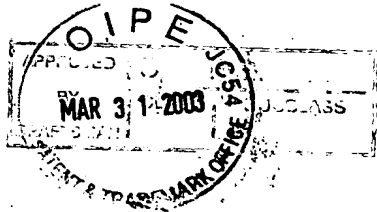


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FIG. 2

MLRSALLSAV	LALLRAQPPF	CPKTCKCVVR	DAAQCSGGSV	AHIAELGLPT	50
NLTHILLFRM	DQGILRNHSF	SGMTVLQRLM	LSDSHISAID	PGTFNDLVKL	100
KTILRLTRNKI	SRLPRAILDK	MVLLLEQLFLD	HNALRDLDQN	LFQQLRNLQE	150
LGLNQNLQSF	LPANLFSSLR	ELKLLDLSRN	NLTHLPKGLL	GAQVKLEKLL	200
LYSNQLTSDV	SGLLSNLGAL	TELRLEARNHL	RSVAPGAFDR	LGNLSSLTLS	250
GNLLESPPA	LFLHVSSVSR	LTLFENPLEE	LPDVLFGEMA	GLRELWLNGT	300
HLSTLPAAAF	RNLSQLQTLG	LTRNPRLSAL	PRGVFOGLRE	LRVLAALHTNA	350
LAELRDDALR	GLGHLRQVSL	RHNRLRALPR	TLFRNLSSLE	SVQLEHNQLE	400
TLPGDVFAAL	PQLTQVLLGH	NPWLCDCGLW	PFLQWLRRHP	DILGRDEPPQ	450
CRGPEPRASL	SFWELLQGDV	WCPDPRSLPL	DPPTENALEA	PVPSWLPNSW	500
QSQTWAQLVA	RGESPNRRLY	WGLYILLLLVA	QAIIAAFIVF	AMIKIGQLFR	550
TLIREKLILLE	AMGKSC				566

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FIG. 3A

5' -TGATCGGAAC TGAAGACCT CCCGCGATAC CTGGCAGAGG CAGTGGCTCT 50
TRE
TCCCTGTGGT CCAGGGGCTGA CTGACTTTGA AGGTAATTTT AGTCAACCCA GCCTTTACTG 110
GGCTCTGACT GCATTAGGCT GCATCAAAGG GGATTGGATC CCATGATTCT TTATATCTTC 170
TGACATTAAG CTTTGTGTCAG CTATAGGTGT TACAAATATC TTTAGTTTGT GGTTCATCTT 230
TTCCCTTTT TTATGGTGTG TTGAAGGATA GAAGTCTTAA TGCAGACAGC ATTATCAGTG 290
TGTTCAAAAG ACAGCTAGAC ACGTTTGGC TATAGACAAA TGGGCAAAAG GAAACCCAGC 350
TTTCTCAAAT GAAGCACAAG TGGGCTTAA TTATGTGAAA AGGTGTTCAA GTTCATCATT 410
AAACAGGGAA AGGAAAAGTT AAAACCATGC TGAGATATCT TTCA TAGAAA TGGCAAAAAG 470
Ets-1
CAGGAAGTGC CACGTGTGGG CAGCAGGAA GCACAGGAAC TCTCACAAT GGCAGGTGTC 530
ATCGTAGACC AACACAACCA CTTTGGAGAG CAGTTTGACT TTCCCCAGTT AAACGAACA 590
TGTGAGCGGC CGGGCGTGGT GGCTCATGCC TGTAAATCCCA GCAGTTTGGG AGGCCGAGGC 650
GGGCGGATTG CCGTAGCTCA GGAGTTCAAG ACCAGCCAGG GCAACACGGT AAAACCCCGT 710
CTCTACTAAA ATACAAAAAA TTAGCTGGGC GTGATGGTGT GTGCCTGTAA TCCAGCTAC 770
TTGTGAGGCC GAGGCAGGAG AATTGCTTGA ACCAGGGAGC AGGAGGTTGC AGTGAGCCGA 830
GATCGCACCA CTGCACCCCA GCGTGGCGAC AGAGTCCCCC TCGCCACCA AAAAAACAAC 890
Ets-1
AAGTGAACAT CCTGCAACCT AGCAATGCCA TTGTTGAACA AGTCAAAGA TGTCTTAGC 950
CTTATTAGTC CCAAAAGGAA GAAAAAATG GAGGATTGTA GAATGTTCTT AGCTTTATTG 1010
CTAAGCGGAG AAAGAAAAAC AACACATACC AAAAAAATAA AAAAAAATAA AAAAAACAA 1070
AAAACCTGGG TGGGAAATTA GGGCATGTG GCATGAAAAG GAAGACCCAG GGAAGTGTG 1130
Spl
GCCCCATCTAG GGGTGTGGT ACTGCAGTGA TCCAGCTGTA TCACTGAAT TCCGTGGCAT 1190
TATA
CATAGAGTTA TATTGTGCCA TTTATGAAA AACTCTCCCC ACTGCTCTTG GCTTTGACAG 1250
TATA
TAGGAATCAG GTTATATATG GTCTCTGGGT TTGAAGATA TTGTATTAA AAACCAGAAC 1310
GATA
AAGGGCTCTG AGATAGGGTC CTTTCCTGAC CTACTCTGGT AAAGTCTTTA TCCTCAGGAT 1370
GCAAGGATAC CACCTCTTC CTGTGAAAG TGTGGAATCA CATGCAGAGC TCTAAGTCTT 1430
T
TCAGTTACTT TGGAGTGCAG AACCATTTC A Ggttaaggcca aatatttttao acattaglat 1490
aggaatttag agggctcttt agtcgtgtgt tgcattgagaa gtaaaattgc acgagaagca 1550
atttatgttao aatttcgctt aggaacatt gttttggtag gtttagtagta tgggtgtgtat 1610
ttcccagaaa attcagtgcc gtgaglatto cctttagtta agcattcttag aatagltgc 1670
tcttatgttt tatggctaa gtcagaaatc taacctcaao ttctatgtga ccttagttat 1730
actgtttgagc ctctctgtgc ctcgtgtgct tcatccttga atcggggata atatacttac 1790
ctcctaaggf tatgtlaagg attaaatgca tgtagtataa ataaagagct gagaaacatg 1850
catggcgtao agtgo taggt attatattat gttttgtttg gctgttgatt gaagggtttt 1910
gctgtttttg ggggttcttt taatagagta acttggtaact gtggaaatag catgattgtg 1970
agcaaaagao tcagatgggt gtggctgcag acttgcgtgt tccctcttg actgttgggt 2030
atagccaatg cagggttaagt tataaagtca agagcagagc cgttttcaco atggacattg 2090
ctttgtgatg tctgtgagct tgaatgtgag aatgattatt ttaattctct atglaaagac 2150
tttaaaagtat tggctatfcg gttagcttga tctctgttaa tctcatgctt taacatgaga 2210
gtggaaaate aataaagcaa aagcaatgag ccacgcagtg tagaatgagt gtcttttcac 2270
caegttaggo aatctgtagt cctaaagaaa gagggagtga gaattctggc gaaaagattg 2330
tgcccttgc coaagtgca gatccagggt ttcatgacag gcgcgaacgc tctgtgtgt 2390
Met
tgaccacact cccacggttg ctttttttagA CATGCTGAGG GGGACTCTAC TGTCCCGGCT 2450

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FIG. 3B

GCTCGGGCTT	CTGGCGGCCC	AGCCCTTCCC	CTGTCCGCCA	GCTTGCAAGT	GTGTCTTCCG	2510
GGACGCGCGG	CAGTGCTCGG	GGGCGGACGT	GGCGCGCATC	TCCGCGCTGG	GCCTGCCAC	2570
CAACCTCAGG	CACATCCTGC	TCTTCGGAAT	GGGCGCGGCG	GTCTGCGAGA	GCCAGAGCTT	2630
CAGCGGCATG	ACCGTCCTGC	AGCGCCTCAT	GATCTCCGAC	AGCCACATTT	CCGCCGTTGC	2690
CCCCGGCACC	TTCAGTGACC	TGATAAAACT	GAACACCCTG	AGGCTGTCCG	GCAACAAAAT	2750
CACGCATCTT	CCAGGTGCGG	TGCTGGATAA	GATGGTGCTC	CTGGAGCAGT	TGTTTTGGA	2810
CCACAATGCG	CTAAGGGGCA	TTGACCAAAA	CATGTTTCAG	AAACTGGTTA	ACCTGCAGGA	2870
GCTCGCTCTG	AACCAGAATC	AGCTCGATTT	CCITCCTCCC	AGTCTCTTCA	CGAATCTGGA	2930
GAACCTGAAG	TTGTTGGATT	TATCGGGAAA	CAACCTGACC	CACCTGCCCA	AGGGGTTGCT	2990
TGGAGCACAG	GCTAAGCTCG	AGAGACTTCT	GCTCCACTCG	AACCGCCTTG	TGCTCTGGA	3050
TTGGGGGCTG	TTGAACAGCC	TGGGCGCCCT	GACGGAGCTG	CAGTTCACCC	GAAATCACAT	3110
CCGTTCCATC	GCACCGGGGG	CCTTCGACCG	GCTCCCAAAC	CTCAGTTCTT	TGACGCTTTC	3170
GAGAAACGAC	CTTGCGTTTC	TCCCTCTGCG	GCTCTTTCTT	CATTGCGACA	ATCTGACTCT	3230
GTGACTCTG	TTGAGAACC	CGCTGGCAGA	GCTCCCGGGG	GTGCTCTTCG	GGGAGATGGG	3290
GGGCTGCGAG	GAGCTGTGGC	TGAACCGCAC	CCAGCTGCGG	ACCCTGCCCG	CCGCCGCCCT	3350
CGGCAACCTG	AGCCGCCTGC	GGTACTTAGG	GGTGA CTCTG	AGCCCGCGGG	TGAGCGCGCT	3410
TCCGCAGGGG	GCCTTCAGGG	GCCTTGCGGA	GCTCCAAGTG	CTCGCCCTGC	ACTCCAACGG	3470
CCTGACGGCC	CTCCCCGACG	GCTTGCTGGG	CGGCTCGGG	AAGCTGCGCC	AGGTGTCCCT	3530
GGCGCGCAAC	AGGCTGCGCG	CCCTGCCCCG	TGCCCTCTTC	CGCAATCTCA	GCAGCCTGGA	3590
GAGCGTCCAG	CTCGAACACA	ACCAGCTGGA	GACCCTGCCT	GGCGACGTGT	TTGGGGCTCT	3650
GGCCCGGCTG	ACGGAGGTCC	TGTTGGGGCA	CAACTCCTGG	CGCTGCGACT	GTGGCCTGGG	3710
GGCCTTCCTG	GGGTGGCTGC	GGCAGCACCT	AGGCCTCGTG	GGCGGGGAAG	AGCCCCCACC	3770
GTGCGCAGGC	CCTGGGGCGG	ACGCCGGCCT	GCCGCTCTGG	GCCC TGCCGG	GGGCTGACCG	3830
CGAGTGCCCG	GGCCCCCGGG	GCCCCGCTCC	CGGCCCGCT	GCCACACAGT	CCTCGGAAGD	3890
CCCTGTCCAC	CCAAGCTTGG	CTCCAACAG	CTCAGAACCC	TGGGTGTGGG	CCCAAGCCGGT	3950
GACCACGGGC	AAAGGTCAAG	ATCATAGTCC	GTTCTGGGGG	TTTTATTTTC	TGCTTTTAGC	4010
TGTTACGGCC	ATGATCACCG	TGATCA TCGT	GTTTGCTATG	ATTAAATTC	GCCAACCTCT	4070
			STOP			
TCGAAAATTA	ATCAGA GAG A	GAGCCCTTGG	GTAACCAAT	GGGAAAATCT	TCTAATTACT	4130
TAGAACCTGA	CCAGATGTGG	CTCGGAGCGG	AATCCAGACC	CGCTGCTGTC	TTGCTCTCCC	4190
TCCCCTCCCC	ACTCCTCCTC	TCTTC TTCT	CTTCTCTCTC	ACTGCCACGC	CTTCTTTTCC	4250
CTCCTCCTCC	CCCTCTCCCG	TCTGTGCTCT	TCAATTCTCAC	GGGCCCGCAA	CCCCTCCTCT	4310
CTCTGT CCCC	GGCCGTCTCT	GGAAA CTGAG	CTTGACGTTT	GTAAACTGTG	GTTCCTTGGC	4370
TTCCCAAGCTC	CACGCGGTGT	GGCCTGACAC	TGCCGGGGGG	CTGGA CTGTG	TTGGACCCAT	4430
CCTTGCCCCG	CTGTGCCTGG	CTTGCCCTCT	GGTGGAGAGA	GGGACCTCTT	CAGTGTCTAC	4490
TGAGTAAGGG	GACAGCTCCA	GGCCGGGGCT	GTCTCCTGCA	CAGAGTAAGC	CGGTAAATGT	4550
TTGTCAAATC	AATGCGTGGA	TAAAGGAACA	CATGCCATCC	AAGTGATGAT	GGCTTTTCCT	4610
GGAGGGAAAG	GATAGGCTGT	TGCTCTATCT	AATTTTTTGT	TTTTGTTTTT	GGACAGTCTA	4670
GCTCTGTGGC	CCAGGCTGGC	GTGCACTGGC	CCGTCTCAGT	TCACTGCAGC	CTCCGCCCTC	4730
CAGGTTCAAG	TGATTCTCAT	GCCTCAGCGT	TCTGAGTAGC	TGGGATTAGA	GGCGTGTGCC	4790
ACTACACCCG	GCTAATTTTT	GTACTTTTTA	AAGTAGAGAC	GGGCTTTGCC	ATATTGGCCT	4850
GGCTGATCTC	AAACTCCTGG	TCTTGAACCT	CTGGCCACAA	GTGATCTGCC	CGCCTTAGCC	4910
TCCCAAAGTG	CTGGGATTAC	AGGCGCAAGC	CACCTACACCT	GCCCTCTTCA	TGCAATTTTA	4970
TTTGAGAAAGT	AGAGCTCTTG	CCATTTTTTC	CCTTGCTCCA	TTTTCTCTAC	TTTATGTCTC	5030
TCTGACCTAT	GGGCTACTTG	GGAGAGCACT	GGACTCCATT	CATGCATGAG	CATTTTCAGG	5090
ATAAGCGACT	TCTGTGAGGC	TGAGAGAGGA	AGAAAACACG	GAGCCTTCCC	TCCAGGTGCC	5150
CAGTGTAGGT	CCAGCGTGTT	TCCTGAGCCT	CCTGTGAGTT	TCCACTTGCT	TTACATCCAT	5210
GCAACATGTC	ATTTTGAAC	TGATTGATT	TGCATTTTCT	GGAACCTCTG	CACCTCATTT	5270
CACAAGCATT	TATGGAGCAG	TAAACATGTG	ACTGGTATTG	ATGAATATAA	TGATAAGCTT	5330

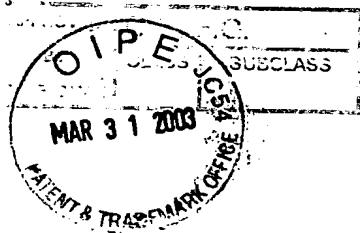


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FIG. 3C

GATTCTAGTT	CAGCTGCTGT	CACAGTCTCA	TTTGTCTCTC	CAACTGAAAG	CCGTAAAACC	5390
TTTGTGCTT	TAATTGAATG	TCTGTGCTTA	TGAGAGGCAG	TGTTTAAAC	ATTTTCTGGC	5450
GAGTTGACAA	CTGTGGGTTG	AAATCCCAGC	TCTACCACTT	ACTAACTGCA	TGGGACTTTG	5510
GGTAAGACAC	CTGCTTACAT	TCTCTAAGCC	TTGGTTTCCT	GAACCTTAAA	ACAGGATAAC	5570
ATAGTACCTG	CTTCATAGAG	TTTTGTGAGA	ATTAAAGGCA	ATAAAGCATA	TAATGACTTA	5630
GCCCAGCGGC	CTGCAGACAA	TACATGTTAA	TGAATGTTAG	CTATTATTAC	TAAAGATGAG	5690
CAATTATTAT	TGGCATCATG	ATTTCTAAAG	AAGAGCTTTG	AGTTGGTATT	TTTCTCTGTG	5750
TATAAGGGTA	AGTCCGAAC	TTCTCATACT	GGAGGTTACA	TTCACATCAG	TCTGTCTTCC	5810
CCTGCGGATG	GCCTCAGCCC	TGGGTGGCCA	GGCTCTGTGC	TCAAGTCCA	GAGCAATGGA	5870
TCCTCCAACA	CCACCAGGTG	GATGTGGAGC	AGGAGAGCTG	GATCGTGGCA	TTTGTCTCTG	5930
GGTTCTGCAG	TTGGGAGTTG	GTTTCTGGGT	TCTCCATTGG	TCTACTTGTG	TAGTCCCATA	5990
CCAGACTCAC	GGTCTCCATT	ATTGGAAGCTT	TAATAATTTT	TGGTATAGGG	TCATCTCTCC	6050
ACCTTGTTTT	TCTTCTATTG	TTGGTTCTTT	GCAATTCTAT	GAATATTTCA	GGGTCTGAT	6110
GTCAACTCCA	TTGAAAAACC	CTGCTGGGAT	TTTAATAGAA	CTTACAGCTC	ACGCTGTAA	6170
TCCCAGCACT	TTGGGAGGCT	GAGGTGGGTG	GATCACAGGT	CAGGAGTTTG	AGAACAGCTG	6230
GCCAAGATGG	TGAAACCCCG	TCTCTACTAA	AAATACAAAA	ATTAGCTGGG	TGCGGTGGCA	6290
GGTGCCTGTA	GTCCCAGCTA	CTTGGGACAC	CGAGGCAGGA	GAATCACTTG	AACCCGGGAG	6350
GCGGAGGTTG	CAGTGAGCCG	AGATCGTGCC	ACTGCACTCT	AGCCTGGGCG	ACAGAGCCAG	6410
ACTCCATCTC	AAAAAAAAG	AAAAAGAAAA	TTGCAGTAAA	TTTAAAACTA	ATTTGGGGAA	6470
GAATCTGTAT	TTTTACAATA	CCTAGTGTTG	TTGCCAGTAA	GCATGGTTCA	TCTTCCCAT	6530
TATTTACGTC	ATTTTAAATC	TTTCAGTGAT	GTTTTAGAA	TTTTTTTATA	AAAACCTTCA	6590
CTATAAGAAC	AGAAAACCAA	ACACCGCATG	TTCTCACTCA	TAGGTGGGAA	TTGAACAATG	6650
AGAACACTTG	GACACAGGGC	GGGGAACGTC	ACACCGCTGG	ACTGTGGGGG	GGGTGGCTGG	6710
GAGAGGGATA	GTGTTAGGAG	AAATACCTAA	TGTAAATGAC	GAGTAAATGG	TGCAGCCAAC	6770
CAACCTGGCA	CATGTATTCA	TATGTAACAA	ACCTGCACGT	TGTGCACATG	TACCCTAGAA	6830
CTTAAAGTAT	ATTAAAAAAA	GAAAGCTTGG	CACTGATTTT	GTTAGATTTA	TTCCTAGGTA	6890
TCCTTCCTCT	TTTTTGATTT	GTCATTGCTA	TTGTAGATGG	CATCTTTTAA	AAAAGTTATA	6950
TTTTCTAAAG	CAAAAAATAA	AAAAAGTTGT	ATTTCTAATT	TTTATTACCA	ATATATAAGA	7010
ATGTAATTTA	TTTTTACATA	ATTATCTTAT	GTCTAGTAAT	AATTCTGATA	ATTTGCTTCT	7070
TCCTATTAAA	ACCTTACACC	CATTATTGAT	TTATTTTCTT	GTTTTAAAT	ATCTTCCTGC	7130
ACTGGCTAAA	ACCTCCACTA	TAATGTTGAG	CAGAACAGTG	AGGCATCCTT	AGAAGTATCT	7190
TGGTTGCAAA	GGGTAGGTCT	CTAATGTTTC	ATCAATAAAT	GTGATGTTTC	TAGTCTGAGT	7250
TTGCTAAGTA	TATTTTAAAA	TAATCAGTAA	AGTTAGATTT	TATCCATTTT	TATCTTAACT	7310
ATTGAGATGC	TCATATCATT	TTTCTTCTTC	AATGTGTTAA	AATGCTGAAT	AAATTTATAG	7370
ATTTTGGAAA	AGTAAATTCA	TTCTTGCATT	CCCGAAGTAA	ACCAAGCCAT	GCTATGTGTA	7430
TTTAAAAATAT	ATTGCTGAAT	TC-3				7452

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Attorney/Agent: Tracy M. Sioussat
Docket No.: MPI98-149PIUSRCM

FIG. 4

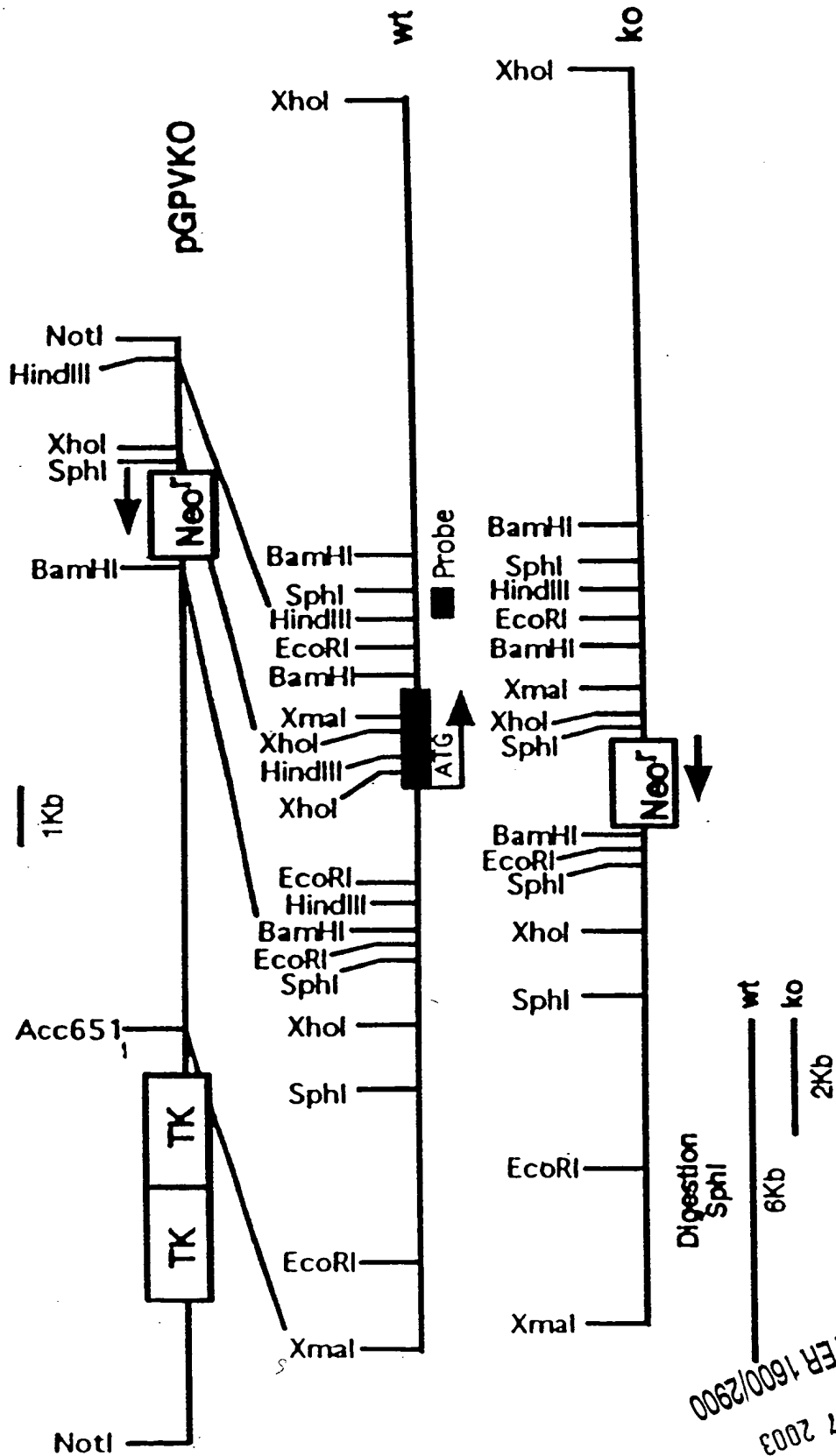
1 M L R G T L L (C) A V L G L L R A Q P F P (C) P P A (C) K (C) V F R
31 D A A Q (C) S G G O V A R I S A L G L P T N L T H I L L F G M
61 G R G V L Q S Q S F S G M T V L O R L M I S D S H I S A V A
91 P G T F S D L I K L K T L R L S R N K I T H L P G A L L D K
121 M V L L E Q L F L D H N A L R G I D Q N M F Q K L V N L Q E
151 L A L N Q N Q L D F L P A S L F T N L E N L K L L D L S G N
181 N L T H L P K G L L G A Q A K L E R L L L H S N R L V S L D
211 S G L L N S L G A L T E L Q F H R N H I R S I A P G A F D R
241 L P N L S S L T L S R N H L A F L P S A L F L H S H N L T L
271 L T L F E N P L A E L P G V L F G E M G G L Q E L W L N R T
301 Q L R T L P A A A F R N L S R L R Y L G V T L S P R L S A L
331 P Q G A F Q G L G E L Q V L A L H S N G L T A L P D G L L R
361 G L G K L R Q V S L R R N R L R A L P R A L F R N L S S L E
391 S V Q L D H N Q L E T L P G D V F G A L P R L T E V L L G H
421 N S W R (C) D (C) G L G P F L G W L R Q H L G L V G G E E P P R
451 (C) A G P G A H A G L P L W A L P G G D A E (C) P G P R G P P P
481 R P A A D S S S E A P V H P A L A P N S S E P W V W A O P V
511 T T G K G O D H S P F W G F Y F L L L A V O A M I T V I I V
541 F A M I K I G O L F R K L I R E R A L G 560

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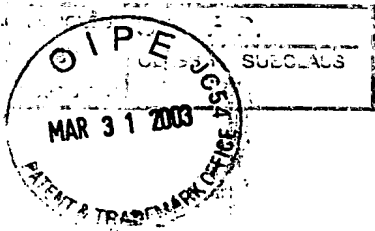


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FIG. 5

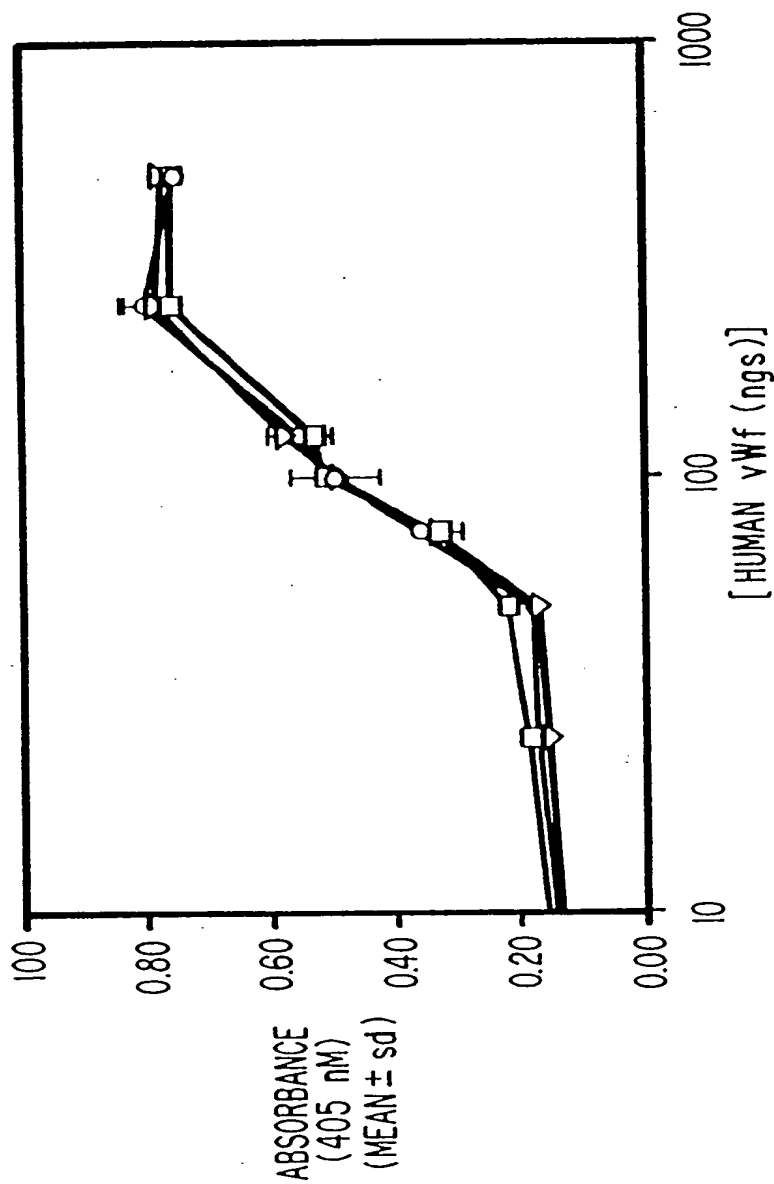


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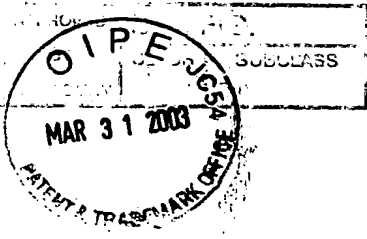


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FIG. 6

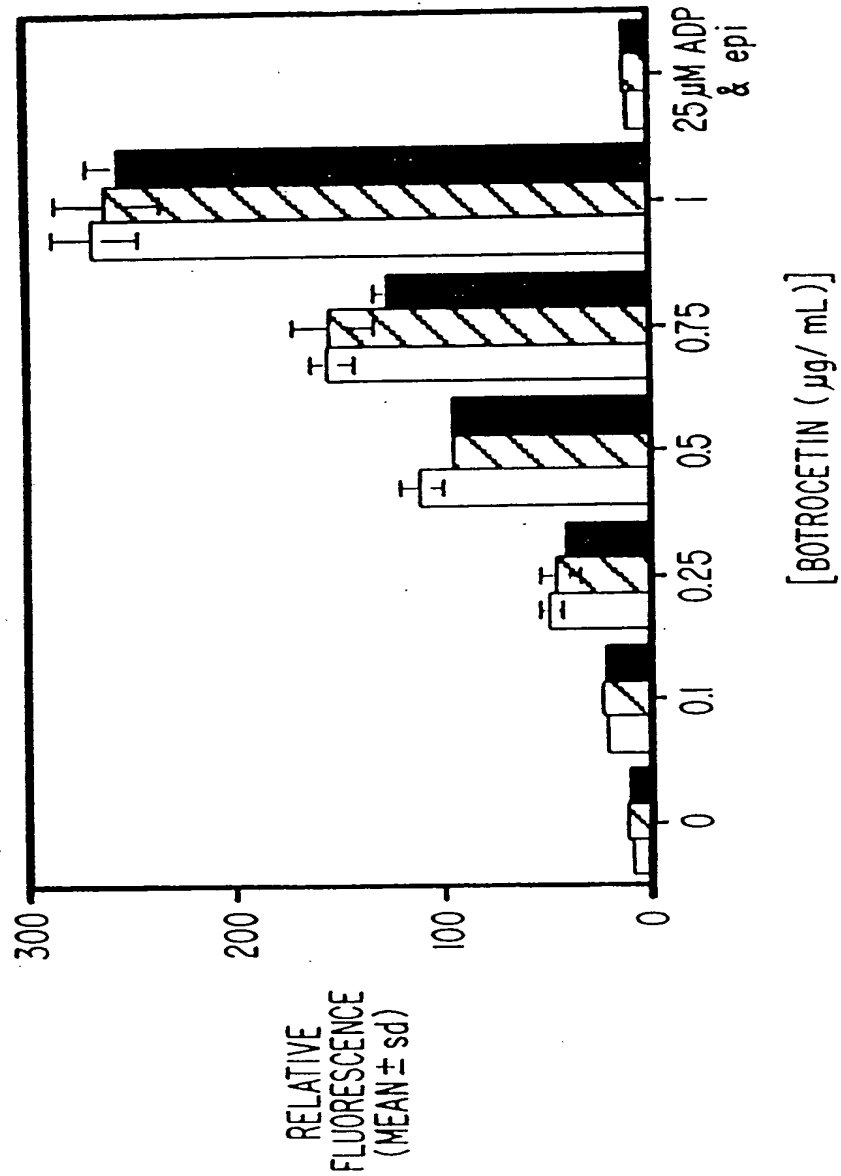


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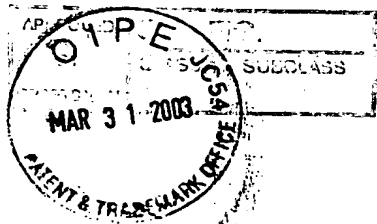


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FIG. 7

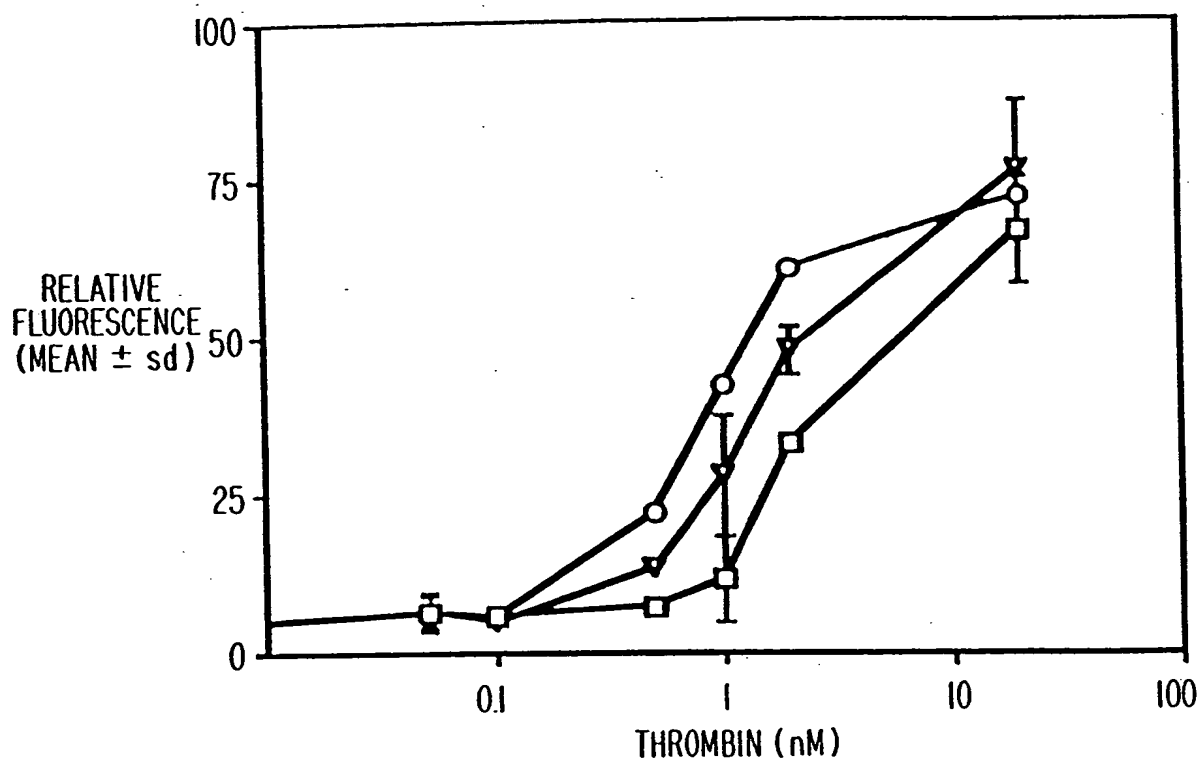


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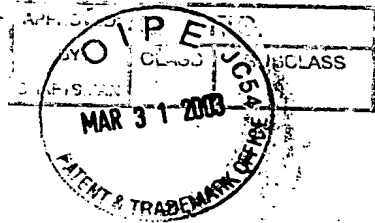


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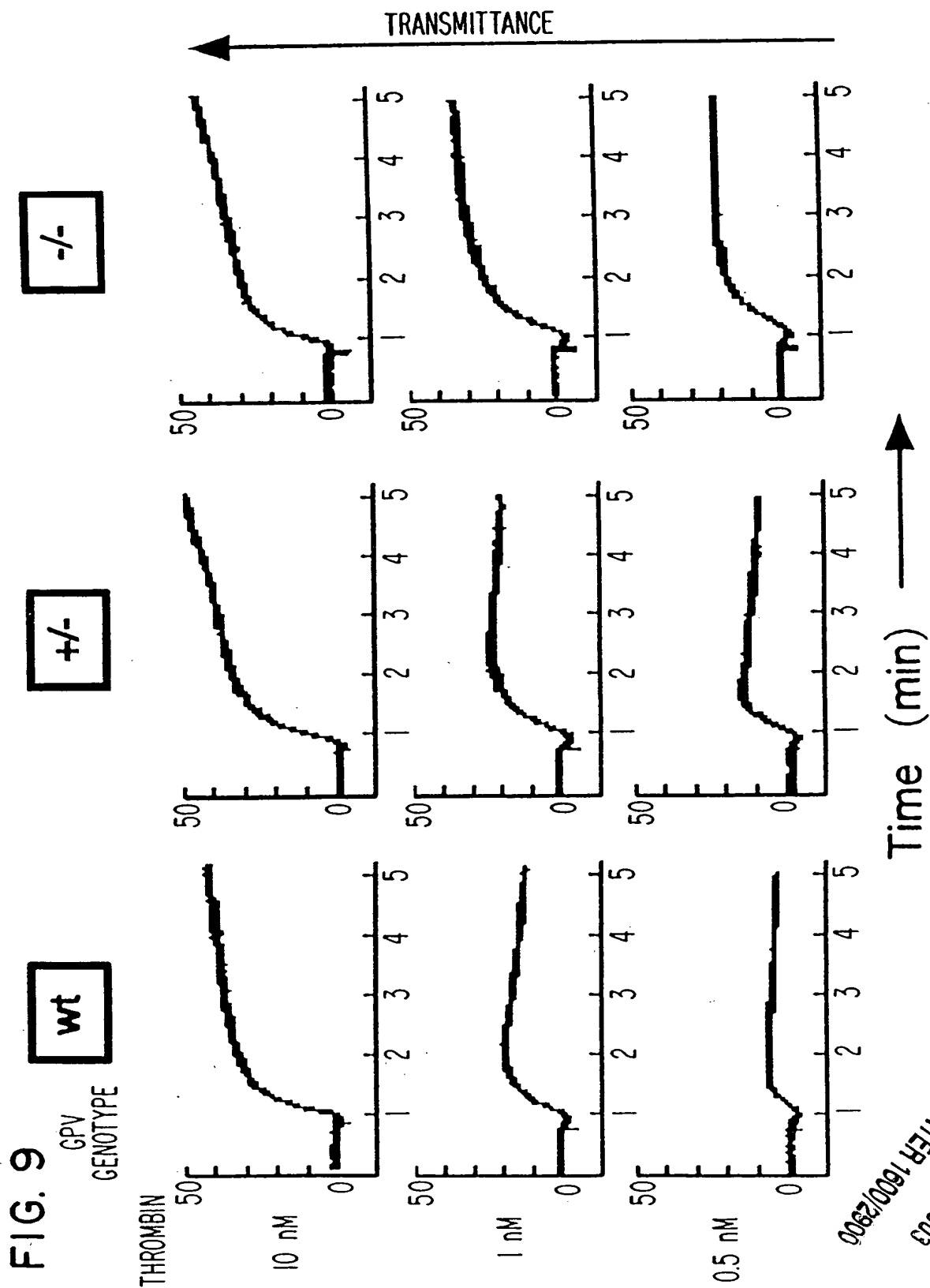
FIG. 8



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